



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 6, 2019

Maria Pilar Herrero
Regulatory Manager
Valent BioSciences, LLC
870 Technology Way
Libertyville, IL 60048

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Update use information for *Anthurium and Calathea*, incorporate general updates/corrections, and add “Not for use in CA” for branching uses and brackets
Product Name: MaxCel
EPA Registration Number: 73049-407
Applications Dated: 09/11/2019 and 10/11/2019
OPP Decision Numbers: 555464 and 556437

Dear Ms. Herrero:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration

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process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact James Parker by phone at (703) 306-0469 or via email at parker.james@epa.gov.

Sincerely,



Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

[Text in brackets [] indicates optional language or language intended for explanatory purposes to facilitate label review. Thus, this language will often not appear on final printed labeling. Also, this page is present (page 1) to delineate sublabels and will not appear on the final printed labeling.]

[Bracketed *italicized* text is optional]

MaxCel[®]
PLANT GROWTH REGULATOR
SOLUTION

[Alternate Brand Names: CytoFlor[™] Plant Growth Regulator Solution and
Chrysal Viva[®] Solution]

MASTER LABEL

Sub-label I: MaxCel[®] Plant Growth Regulator Solution
For use on Apple, Pear, Pistachio, Non-Bearing Trees, Avocado, Tomato, Pepper,
Cucumber, Squash and Melon.

Sub-label II: MaxCel[®] Plant Growth Regulator Solution
For use on Ornamentals

Sublabel III: MaxCel[®] Plant Growth Regulator Solution
For Use on Cut Flowers and Potted Plants

Active Ingredient:	By Wt.
6-benzyladenine.....	1.9%
Other Ingredients	98.1%
Total	100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION

EPA Registration No. 73049-407
EPA Est. No.

Batch Code: _____

Registrant:
Valent BioSciences LLC
870 Technology Way
Libertyville, IL 60048
1-800-6-Valent

Net Contents:

MaxCel

PLANT GROWTH REGULATOR SOLUTION

[SUB-LABEL I]

For Use on Apple, Pear, Pistachio, Non-Bearing Trees, Avocado, Tomato, Pepper,
Cucumber, Squash, and Melon

Active Ingredient:	By Wt.
6-benzyladenine.....	1.9%
Other Ingredients	98.1%
Total	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

For Medical and Transport Emergencies ONLY Call 24 hours a Day 1-800-892-0099.
For All Other Information Call 1-800-6-VALENT.

See succeeding panel for First Aid, additional Precautionary Statements, Directions for
Use and Storage/Disposal Statements

EPA Registration No. 73049-407
EPA Est. No.

Registrant:
Valent BioSciences LLC
870 Technology Way
Libertyville, IL 60048
1-800-6-Valent (682-5368)

Net Contents:

FIRST AID

If in eyes

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, you may also call toll-free 1-800-892-0099 for treatment information.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing. Wear protective eyewear, long-sleeved shirt and long pants, chemical resistant gloves and shoes and socks. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. For more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers for all uses must wear:

- Protective eyewear
- Long sleeved shirt and long pants
- Chemical-resistant gloves (such as barrier laminate; butyl, nitrile or neoprene rubber; polyvinyl chloride or viton).
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the State/Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- For all uses: Chemical-resistant gloves (such as barrier laminate; butyl, nitrile or neoprene rubber; polyvinyl chloride or viton)
- Shoes plus socks

PRODUCT INFORMATION

IMPORTANT: Before application, read all directions thoroughly. Use MaxCel only as directed.

MaxCel contains 1.9% (w/w) 6-benzyladenine (6BA). 6BA is a potent plant growth regulator belonging to the group of growth regulators known as cytokinins.

Consult your local Valent Agricultural Specialist (1-800-6-Valent) for specific information regarding the use of this product in your particular orchard(s).

Compatibility With Other Agricultural Products

Information on tank mix compatibility of MaxCel is limited at this time.

GENERAL APPLICATION INSTRUCTIONS

Notice: Read the entire label. Use only according to label directions.

- Do not apply this product through any type of irrigation system.
- Apply in the morning or evening when conditions are best for slow drying (cooler temperatures and higher humidity), in order to ensure adequate absorption of the product. If applied in the morning, assure that the leaves are not too wet from dew.
- To minimize foaming of spray solution, reduce agitation and add the product to the tank after filling to 1/2 capacity with water.
- Product performs best at water pH between 5 and 7; do not exceed pH of 8.5.
- No surfactant is generally required.
- Apply spray solutions in properly maintained and calibrated equipment.

Apple and Pear uses

- For apple and pear, do not exceed a total of 310 fluid ounces of product (182 grams of 6-benzyladenine) per acre per season for all uses.

APPLE

USE	Application Rate	Spray Volume	Spray Timing
For enhancement of fruit size	Apply 10 to 50 ppm spray concentration (refer to the dilution table for assistance).	Use sufficient volume to ensure complete tree coverage.	Make 2-4 applications, starting at petal fall, and continuing at 3-10 day intervals.

Additional Instructions:

- Direct 80% of the spray into the upper 2/3rd of the tree canopy.

- Apply in a sufficient amount of water to ensure thorough coverage without excessive run-off. Use calibrated spray equipment (such as an airblast sprayer) to ensure uniform coverage of leaves and fruit. Adjust water volumes based on tree size and spacing. In many cases, spray volumes of approximately 100 gallons per acre have been shown to be adequate.
- Applications will be most effective when the maximum temperature is above 65° F on the day of application, and the following 2-3 days.
- **Do not exceed 2.65 oz. 6-benzyladenine per acre per season.**
- **Do not apply within 86 days of harvest.**

NOTE: This use may cause fruit thinning in some easy to thin varieties, and/or under conditions favorable for thinning.

APPLE and PEAR

USE	Application Rate	Spray Volume	Spray Timing
For fruit thinning, sizing, and enhanced return bloom	Apply 75 to 200 ppm spray concentration (refer to the dilution table for assistance).	Use sufficient volume to ensure complete tree coverage.	Apply when the average diameter of king fruitlets is between 5-15 mm. 10 mm is optimal. Do not apply more than twice in a season.

Additional Instructions:

- Direct 80% of the spray into the upper 2/3rd of the tree canopy.
- Applications will be most effective when the maximum temperature is above 65° F on the day of application, and the following 2-3 days.
- Use higher rates in orchards that have a history of being difficult to thin, in varieties known to be difficult to thin, and in cool weather situations.
- Apply in a sufficient amount of water to ensure thorough coverage without excessive run-off. Use calibrated spray equipment (such as an airblast sprayer) to ensure uniform coverage of leaves and fruit. Adjust water volumes based on tree size and spacing. In many cases, spray volumes of approximately 100 gallons per acre have been shown to be adequate
- **Do not exceed a total of 310 fluid ounces of product (182 grams of 6-benzyladenine) per acre per season.**
- **Do not exceed 6.42 oz. 6-benzyladenine per acre per season.**
- **Do not apply within 86 days of harvest.**

NOTE: Generally, only one application is sufficient for fruit thinning. If a second application is desired to obtain additional thinning:

- Allow 7-10 days to observe the effect of the first application.

- Spray the second application before the average diameter of king fruitlets exceeds 20 mm.

BRANCHING APPLICATION

For increased branching of nursery stock and young trees to improve branch angles, stimulate bud break and improve tree structure.

Table 1. Foliar Applications

Crop	Rate	Timing
<p>Apples and Pears (Nursery and Orchard)</p> <p><i>[Not for use in California]</i></p> <p>Non-bearing Sweet Cherries (Nursery and Non-Bearing Orchard only)</p> <p><i>[Not for use in California]</i></p>	<p>250 - 500 ppm¹ (8-16 fluid ounces <i>MaxCel</i> per 5 gallons of spray solution)²</p>	<p>For orchard trees (apples, pears and non-bearing sweet cherries) make first application at 1 – 3 inches of new terminal growth. Target application to the site where branching is desired (e.g. at trellis wires).</p> <p>1 – 4 applications can be made at targeted sites where additional branching is desired as tree height increases through the season.</p> <p>For nursery stock make first application after trees have reached a height at which lateral branching is desired. 1 – 4 additional applications can be made each time the main leader adds 5 inches of new growth, or about every 7 – 10 days.</p>

¹parts per million

²On orchard trees (apple and pear), do not exceed 310 fluid ounces per acre per season for all use patterns combined (branching, thinning, return bloom, and size enhancement). On nursery trees (apple, pear, and non-bearing sweet cherry), **do not exceed 320 fluid ounces (20 pints) per acre per season.**

Additional Instructions:

- Add a buffer or acidifier as needed to keep the final spray solution pH between 5-7.
- In the orchard, make a precision application targeted at the site where branching is desired using a single nozzle such as with a backpack sprayer, squirt bottle, or single nozzle on an orchard or boom sprayer. In the nursery, targeted site applications may also be made with more than one nozzle on orchard or boom

sprayers, using sufficient water for good coverage without reaching the point of run-off. Typically 40 gallons per acre has been shown to be adequate.

- Best results with this application method will be on the current season’s growth. This application method is not recommended on wood that is older than one year.
- Do not apply in temperatures below 40° F or above 90° F. Best results will be from applications made when air temperatures are between 65° F - 75° F.
- Do not tank mix with streptomycin or apply streptomycin on the same day.
- Warmer sites with faster growth rates will be able to make up to the maximum 5 applications per season. Cooler sites with slower growth rates will use fewer applications – usually up to 3 applications.
- Applications to non-bearing sweet cherries must not be made later than one year prior to first anticipated harvest.
- **Do not exceed 10.58 oz. 6-benzyladenine per acre per season.**
- **Do not apply within 86 days of harvest on apples or pears with fruit intended for harvest.**

Table 2. Application to Buds and Bark – Latex Application

Crop	Rate	Timing
Apples and Pears (Nursery and Orchard)	1500 – 5000 ppm¹ (1.2 – 4.0 fluid ounces <i>MaxCel</i> per pint of solution)	Apply in the spring when terminal buds begin to swell but before shoots emerge.
Non-bearing Sweet Cherries (Orchard only) (Not for use in California)		

¹parts per million

²latex paint or water

Additional Instructions:

- Make targeted spot applications to buds and/or bark at the sites where branching is desired using a brush, sponge, or paint roller.
- For best results, use a dark colored interior latex paint as the solution carrier. Do not use exterior paint. Do not use any paint that also contains a mildewcide, such as bathroom paint.
- Whether using paint or water as the solution carrier, the addition of a non-ionic penetrating surfactant will improve absorption and response.
- Application can be made with or without supplemental branch induction tactics on one-year old wood. For two and three year old wood, use the higher end of the rate range in conjunction with an additional tactic such as nicking, notching, partial scoring, or cambium crushing. For wood older than 3 years, refer to the section titled: Special Instructions to Reduce Blind Wood on Apples with Type 4 Growth Habit.

- If using in conjunction with additional tactics, be aware of the associated risks of bacterial infection from *Erwinia* and *Pseudomonas* and open wounds in the tree bark, and implement appropriate risk mitigation measures. Consult your local Valent Agricultural Specialist (1-800-6-VALENT) for specific information.
- Do not apply this rate of *MaxCel* or use this application method after bud break. Applications after bud break have been known to cause injury to tender shoot tips and fail to promote shoot growth from that point.
- For best results, apply in temperatures above 50° F.
- Applications to non-bearing sweet cherries must not be made later than one year prior to first anticipated fruit harvest.

Special Instructions to Reduce Blind Wood on Apples with Type 4 Growth Habit:

To force break of paradormant buds and promote resulting shoot extension on older wood of apple trees, make a notch immediately above the dormant bud and apply up to 1500 ppm of *MaxCel* directly into the notch using a squirt bottle or paint brush. Notching and application should be done in the spring when temperatures warm. If applications are made after bud break, use caution to prevent contact of the *MaxCel* solution with green tissue to avoid injury to tender shoot tips.

For optimum results, the notch must penetrate through the cambium layer. Be aware of the associated risks of bacterial infection from *erwinia* and *pseudomonas* in open wounds, and implement appropriate risk mitigation measures, including avoiding notching when conditions are favorable for infection.

PISTACHIO

USE	Application Rate	Spray Volume	Spray Timing
To increase yield, and reduce alternate bearing	Apply 25-50 ppm spray concentration (refer to the dilution table for assistance).	Use sufficient volume to ensure complete tree coverage.	Always make two applications: 1st: Early-to-mid June 2nd: Early-to-mid July

Additional Instructions:

- Apply in a tank mix with low biuret urea foliar nutritional spray at the rate of 6.25 - 12.5 lbs nitrogen per acre at both spray timings.
- Use calibrated airblast spray equipment to ensure uniform coverage of leaves and fruit. Adjust water volumes based on tree size and spacing. In many cases, spray volumes of approximately 100 gallons per acre have been shown to be adequate.
- **Do not exceed 2.65 oz. 6-benzyladenine per acre per season.**
- **Do not apply within 60 days of harvest.**

AVOCADO

Use	Application Rate	Product/acre	Application method and timing
To increase fruit size, yield, and reduce alternate bearing.	Apply 50 ppm spray concentration. (Refer to the dilution table for assistance.)	Do not exceed 80 fluid ounces of product per acre.	Make a single foliar application at full bloom. Do not apply more than once per season.

Additional Instructions:

- Full bloom is defined as 50% of the trees in the orchard have 50% of the tree at full bloom. At this stage, 25% of the trees will be at an early stage of flowering and 25% will be at a later stage of flowering.
- Use calibrated spray equipment, such as airblast to ensure uniform coverage of leaves and fruit. Adjust water volumes based on tree size and spacing. In many cases, spray volumes of approximately 100 gallons per acre have been shown to be adequate for applications.
- **Do not exceed 1.653 oz. 6-benzyladenine per acre per season.**
- **Do not apply within 14 days of harvest.**

TOMATO and PEPPER

USE	Application Rate	Spray Volume	Spray Timing
For enhancement of fruit size Peppers Tomatoes	Apply 20 ppm spray concentration (refer to the dilution table for assistance). Max use rate: 0.132 oz. /acre per application	Use sufficient volume to ensure complete coverage of plants.	Make 5 applications, starting at first fruit formation, and continuing at a 7 day interval.

- Applications will be most effective when the maximum temperature is above 65° F on the day of application, and the following 2-3 days.
- Booms or directed backpack sprayers may be used.
- **Do not exceed 0.66 oz. 6-benzyladenine per acre per season.**

CUCUMBER, SQUASH, and MELON

USE	Application Rate	Spray Volume	Spray Timing
For enhancement of fruit size Cucumbers Melons Squash	Apply 20 ppm spray concentration (refer to the dilution table for assistance). Max use rate: 0.132oz. /acre per application	Use sufficient volume to ensure complete coverage of plants.	Make 5 applications, starting at first fruit formation, and continuing at a 7 day interval.

- Applications will be most effective when the maximum temperature is above 65° F on the day of application, and the following 2-3 day.
- Booms or directed backpack sprayers may be used.
- **Do not exceed 0.66 oz. 6-benzyladenine per acre per season.**

MaxCel Dilution Table

Fluid ounces of MaxCel per 100 gallons of spray required to obtain given ppm concentration

10 ppm	20 ppm	25 ppm	50 ppm	75 ppm	100 ppm	125 ppm	150 ppm	175 ppm	200 ppm	500 ppm
6	12	16	32	48	64	80	96	112	128	320

Note: MaxCel contains 75 grams active ingredient per 128 fluid ounces (one gallon).

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store product in a cool and dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

NOTICE TO USER

To the fullest extent permitted by law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. To the fullest extent permitted by law, user assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

MaxCel is a registered trademark of Valent BioSciences LLC
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MaxCel[®]
Plant Growth Regulator
Solution

[Alternate Brand Name: CytoFlor[™] Plant Growth Regulator Solution]

[SUB-LABEL II]

For Use on Ornamentals

Active Ingredient:	By Wt.
6-benzyladenine.....	1.9%
Other Ingredients	98.1%
Total	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See succeeding panel for First Aid, additional Precautionary Statements, Directions for Use and Storage/Disposal Statements

EPA Registration No. 73049-407
EPA Est. No. 33762-IA-001

Produced for:
Valent BioSciences LLC
870 Technology Way
Libertyville, IL 60048
1-800-6-Valent (682-5368)

Net Contents:

This container will treat _____acre at the maximum use rate, as directed for use on _____
_____.

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-6-Valent (682-5368).</p>	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing. Wear protective eyewear, long-sleeved shirt and long pants, chemical resistant gloves and shoes and socks. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. For more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Protective eyewear
- Long sleeved shirt and long pants
- Chemical-resistant gloves (such as barrier laminate; butyl, nitrile or neoprene rubber; polyvinyl chloride or viton).
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State/Tribal agency responsible for pesticide regulation.

No aerial application is permitted for the uses on this label.

IMPORTANT: Before application, read all directions on the label thoroughly. Use MaxCel[®] Plant Growth Regulator Solution (hereafter referred to as MaxCel) only as directed.

MaxCel contains 6-benzyladenine (6BA) as its active ingredient. 6BA is a potent plant growth regulator belonging to the group of growth regulators known as cytokinins.

FOR USE IN: COMMERCIAL GREENHOUSES, GLASSHOUSES (WHERE PLANTS ARE GROWN IN CONTAINERS), AND ON ACTIVELY GROWING STOCK IN GROUND.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves (such as barrier laminate; butyl, nitrile or neoprene rubber; polyvinyl chloride or viton)
- Shoes plus socks

PRODUCT INFORMATION

MaxCel promotes flowering in certain ornamental crops and increases lateral or basal branching. Additionally, applications of MaxCel are known to reduce the overall height of specific plants resulting in more compact and marketable plants.

Plant response to MaxCel is strongly influenced by cultural and environmental variables. Growth media, water/fertilizer management, temperature, light, greenhouse composition, and other cultural practices may impact plant response.

Plant size, container size and cultivar or variety is known to influence treatment response. Although multiple cultivars have been tested for sensitivity to MaxCel and have demonstrated high levels of tolerance, it is impossible to insure an acceptable response in all cultivars. For first time users of MaxCel or when looking at new varieties, always conduct trials on a limited number of plants to determine crop response.

Consult your local Mycorrhizal Applications Agricultural Specialist (866-476-7800) for specific information regarding the use of this product in your particular nursery or orchard(s).

GENERAL APPLICATION INSTRUCTIONS

- Make sure that sufficient volumes of water are used to thoroughly wet foliage. Spray uniformity is equally important.
- Uniformly apply 1-2 quarts of finished spray solution to 100 sq. ft. of area (109-218 gallons per acre).

Compatibility With Other Agricultural Products

Information on tank mix compatibility of MaxCel is limited at this time.

Christmas Cactus (*Schlumbergera* spp.):

Do not exceed 5.8 oz. 6-benzyladenine per acre.

MaxCel can be applied as a foliar spray to:

To increase branching when the plant is growing vegetatively: Apply MaxCel at 100 ppm (138 fl oz MaxCel per acre; 2.85 oz. a.i. 6BA/acre) as a uniform foliar spray after planting when new vegetative growth begins.

To increase the number of flower buds under reproductive conditions: Apply MaxCel at 100 to 200 ppm (138 to 276 fl oz MaxCel per acre; 5.7 a.i. 6BA/acre) as a uniform foliar spray after the start of short days following leveling, or when flower buds become visible. Specific guidelines, as indicated below, are based on lighted or natural season grown plants

- For floral initiation under short day conditions (i.e., lighting/black cloth): Wait 5 to 10 days after the start of short days to level by removing immature phylloclades. Make a single application of MaxCel immediately following or 1 day after leveling.
- For floral initiation under natural environmental conditions: Make a single application of MaxCel after flower buds first become visible (i.e., pinpoint bud stage). Timing of first visible bud will vary by cultivar. Avoid early applications which will result in phylloclade promotion and delayed flowering.

Plantain Lily (*Hosta* spp.): Use is limited to Nurseries, Greenhouses and Field Application by Manually Pressurized Handwand or GroundBoom

Do not exceed 87.3 oz. 6-benzyladenine per acre.

Use of MaxCel on *Hosta* has been shown to promote lateral growth of finished plants by inducing the outgrowth of axillary and rhizomic buds. MaxCel can also be used to increase offsets during propagation.

For the promotion of lateral growth on finished plants: Apply MaxCel at rates ranging from 1000 – 3000 ppm in a uniform spray volume. MaxCel is most effective when plants are fully established prior to application (i.e., at least 3 to 4 weeks after potting), when there is evidence of surface root development, but before flower initiation.

For increased production of offsets (propagation): Using uniform spray volumes spray MaxCel at rates ranging from 1000 – 3000 ppm to fully established, actively growing stock plants. Repeat the application at 30-day intervals during the growing season. Offsets may be harvested at any time.

Treatment effects may vary by *Hosta* cultivar. Different cultivars respond differently to a given rate of MaxCel. Multiple applications at 30-day intervals using lower rates may be more effective than a single application at higher rates. Conduct trials on a small number of plants under actual use conditions to establish the proper use rates and timings.

APPLICATION INSTRUCTIONS FOR USE ON CONTAINERIZED ANNUAL AND PERENNIAL FLOWERING AND FOLIAGE CROPS AND TROPICAL PLANTS

Do not exceed 14.5 oz. 6-benzyladenine per acre.

- Apply MaxCel as a foliar spray when plants are fully established and under active growth i.e., at least 3 to 4 weeks after potting.
- Apply MaxCel at rates ranging from 50 to 500 ppm. (32 to 320 fl oz MaxCel per acre; Max 6.63 oz 6BA/acre).
- Apply in a uniform spray volume of 2 quarts per 100 square feet of area. Cultivars within the same species may respond differently to a given rate of MaxCel. For first time users of MaxCel, always treat a limited number of plants starting with 50 ppm (32 fl. oz. MaxCel per acre) on annuals and 100 ppm (64 fl oz MaxCel per acre) on perennials and tropical plants; study for plant responses and adjust rates accordingly.
- Multiple applications of MaxCel at 7-10 day spray intervals are often necessary to achieve optimum results i.e., increased lateral growth.
- MaxCel can cause significant injury to *Exacum*. DO NOT use MaxCel on this genus.
- MaxCel has been shown to cause a significant delay in flowering on *Gaillardia*. DO NOT apply MaxCel to *Gaillardia* more than once during the production cycle.
- Do not use MaxCel on *Aster*, or *Cosmos*.

INCREASE OF LATERAL BRANCHING AND FLOWER BUD FORMATION FOR NON-EDIBLE PLANTS AND NON-BEARING FRUIT TREES

Do not exceed 87.3 oz. 6-benzyladenine per acre.

- Apply 50-500 ppm MaxCel (32 to 320 fl oz MaxCel per acre; 6.63 oz 6BA/acre).as a foliar spray or drench treatment to ornamentals plants to stimulate lateral branching in container-grown plants. The typical application rate in most ornamental plants is 300-500 ppm (192 to 320 fl oz MaxCel per acre).
- but some species e.g., Hosta spp., are less sensitive. MaxCel is a chemical substitute for mechanical pinching/shearing.
- Due to the increased number of branches/offshoots, MaxCel can increase the number of flower buds to form.
- MaxCel can be applied in plug flats, liners or to finished plants when plants are actively growing and have good root growth. Plants have to have lateral buds available for branching. Uniformity of cuttings is important for efficacy.
- Make multiple applications if single application of MaxCel does not provide adequate efficacy. Allow 10-14 days between applications to observe efficacy of the previous application and to avoid phytotoxicity.
- Apply MaxCel when plants have sufficient stem development to support branching.
- MaxCel may increase branch angle of some narrow-angled plants such as Bradford pear (*Pyrus calleryana*).
- Due to the increased resource allocation to greater number of lateral branches, MaxCel may reduce growth rate/overall height of the plant resulting in a more compact and marketable plant.
- MaxCel may delay flowering.

REMOVAL OF UNDESIRED FRUIT FROM NURSERY ORNAMENTAL APPLE AND PEAR TREES

Do not exceed 2.65 oz. 6-benzyladenine per acre.

- Apply 50-200 ppm MaxCel (32-128 fl oz MaxCel per acre) as a foliar spray treatment to flowering apple and pear trees where the presence of fruit is undesired after flowering.
- Apply MaxCel when fruitlets are young and small, normally not later than 3 weeks after flowering.
- Generally, one application is sufficient to remove undesired fruit. If a second application is desired to obtain additional fruit removal, allow 7-10 days to observe the effect of the first application.
- Use sufficient spray volume to ensure complete tree coverage.
- MaxCel applications will be the most effective when the maximum temperature is above 65°F on the day of application, and the following 2-3 days.

MaxCel Dilution Table

Fluid ounces of MaxCel per 100 gallons of spray required to obtain given ppm concentration

50 ppm	100 ppm	200 ppm	300 ppm	400 ppm	500 ppm	900 ppm	1000 ppm	2000 ppm	3000 ppm
32	64	128	192	256	320	576	640	1280	1920

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store product in a cool and dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

Note: MaxCel contains 75 grams active ingredient per 128 fluid ounces (one gallon).

WARRANTY AND DISCLAIMER STATEMENT

To the fullest extent permitted by law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. To the fullest extent permitted by law, user assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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MaxCel[®]
Plant Growth Regulator
Solution

[Alternate Brand Name: Chrysal Viva[®] Solution]

[SUB-LABEL III]

For Use on Cut Flowers and Ornamental Potted Plants

Active Ingredient:	By Wt.
6-benzyladenine.....	1.9%
Other Ingredients	98.1%
Total	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See succeeding panel for First Aid, additional Precautionary Statements, Directions for Use and Storage/Disposal Statements

EPA Registration No. 73049-407
EPA Est. No. 33762-IA-001

Registrant:
Valent BioSciences LLC
870 Technology Way
Libertyville, IL 60048
1-800-6-Valent (682-5368)

Net Contents:

This container will treat _____acre at the maximum use rate, as directed for use on _____.

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-6-Valent (682-5368).</p>	

**PRECAUTIONARY STATEMENTS HAZARDS
TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing. Wear protective eyewear, long-sleeved shirt and long pants, chemical resistant gloves and shoes and socks. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. For more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Protective eyewear
- Long sleeved shirt and long pants
- Chemical-resistant gloves (such as barrier laminate; butyl, nitrile or neoprene rubber; polyvinyl chloride or viton).
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours unless wearing appropriate PPE.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

PRODUCT INFORMATION

IMPORTANT: Before application, read all directions on the label thoroughly. Use MaxCel® Plant Growth Regulator Solution (hereafter referred to as MaxCel) only as directed.

MaxCel can be used by growers to improve the quality of cut flowers after harvest and potted plants. It can be used as a dip treatment on cut flowers or as a spray treatment on cut flowers and potted plants. The effects depend on the type of cut flower and potted plant. The effects on the most widely tested cut flowers and plants are described below, but positive effects of MaxCel sprays on vase life performance have also been observed for *Agapanthus*, *Aster*, *Eryngium*, *Lavatera* and *Ornithogalum*.

APPLICATION INSTRUCTIONS

Cut flowers

Dip flowers in a ready-to-use solution for a few seconds or spray until run off. Dipping usually gives better results than spraying.

Rosa

To improve vase life and obtain a better colour development, especially for red roses, flowers should preferably be dipped.

Chrysanthemum

To counteract leaf yellowing, whole stems should be dipped.

Anthurium

The vase life is usually improved very significantly with a spray. In some cultivars flower colour may be influenced: while red colours may be intensified, greening of the flower colour can sometimes also be observed.

Tropical leaves and flowers

Good results have been obtained with sprays on leaves of *Anthurium*, *Monstera* and *Philodendron* and on *Calathea*, *Curcuma*, *Heliconia* and *Strelitzia* flowers. Though results vary, the vase life of these tropical leaves and flowers is in many instances strongly improved.

Potted plants

Spray potted plants until run-off just prior to shipment. Spray directly on the leaves, buds and flowers of ornamental potted plants. Avoid excess spray and spraying onto soils or other substrates.

Rosa

A spray counteracts leaf yellowing, which especially occurs in the lower leaves. Also shoot development is often stimulated, and especially for red roses better colour development occurs.

Anthurium and Calathea

A spray significantly extends the flowering duration.

Phalaenopsis Increases the number of flowering stems when sprayed on plants when spike induction is triggered by transferring the plants to lower temperatures.

Spray *Phalaenopsis* plants just prior of transferring them into the area of low temperature for spike induction.

Dosage: Add 0.14 fl. oz. to 33.8 fl. oz. of water (4 ml of MaxCel to 1L of water) and mix thoroughly. For the use on *Phalaenopsis* plants to increase the number of flowering stems a dosage up to 0.27 fl. oz. to 33.8 fl. oz. of water (8 ml of MaxCel per 1L) of water is advised for optimal results.

Overdosing may lead to phytotoxicity, especially on softer tissues. If even at the advised dosage of 0.14 fl. oz. to 33.8 fl. oz. of water 4 ml per litre, phytotoxicity is accidentally observed, lower doses. In these cases, a lower dosage of 0.07 fl. oz. to 0.04 fl. oz. of product to 33.8 fl. oz. of water (2 or 1 ml per litre) should be used. However, lower dosages will result in lower efficacy.

Ready-to-use solution used for dipping cut flowers remains active for 24 hours. If necessary, used dip solution can be topped up with fresh solution during this period. At the end of the day, residual solution should be discarded per the instructions in the STORAGE AND DISPOSAL section of this label.

The product is normally a clear, transparent liquid. However, under certain temperature conditions the solution may turn turbid. This turbidity is not affecting the homogeneity and efficacy of the product.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store below 75°F (24°C). Keep containers tightly closed when not in use.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal: Nonrefillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact Ag Container Recycling Council at 202-861-3144 or www.acrecycle.org. If recycling is not available puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Warranty and Disclaimer Statement

TO THE FULLEST EXTENT PERMITTED BY LAW, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE CONCERNING THE USE OF THIS PRODUCT OTHER THAN AS INDICATED ON THE LABEL. USER ASSUMES ALL RISKS OF USE, STORAGE OR HANDLING NOT IN STRICT ACCORDANCE WITH ACCOMPANYING DIRECTIONS.

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